

Math at Home Activities (6-8)

Real-World Ratios

- While shopping (online or in-person), have the student find the better buy
- Ask them to compare two different sizes of the same product—for example, a 12oz box of cereal versus a 24oz box.
- Ask them to find the unit rate (price per ounce).

Comparing Services

- Compare two different subscription models (e.g., a flat monthly fee vs. a lower fee plus a cost-per-movie).

Negative Numbers

- Talk about negative numbers in everyday contexts like temperature or elevation.
- Track drives in a football game to calculate yards lost and gained throughout a game.
- Track allowance charges and credits.

Calculating Tip

- Ask your child to calculate the tip at a restaurant.
- The "Reverse Tip" Game - When the bill arrives at a restaurant, tell the student the total after the tip was added and the percentage used (e.g., "The total is \$60, and I tipped 20%"). Have them work backward to find the original bill and the exact dollar amount of the tip.

Critical Consumer

- Find a graph in a news article or social media post to critique. Examples,
 - *Does the vertical axis start at zero? If it starts at 50, the difference between two bars might look massive when it's actually small.*
 - *What was the sample size? Who did they ask? If they polled 10 people at a dog park about "favorite pets," is that a representative sample of the whole city?*

Measures of Center

- Have your child track a simple data set for a week, like "minutes spent on chores" or "hours of sleep." At the end of the week, have them calculate the mean, median, and range. Ask: "If you had one night where you stayed up late, how does that 'outlier' change our mean versus our median?"

Pizza Math

- Compare different sized pizzas to determine the best deal.
- When making pizza at home, calculate the amount of sauce, cheese, or other ingredients needed based on the area of the pizza.